

1097-35-451

Fabiana Travessini De Cezaro* (fabi.travessini@gmail.com), The University of Memphis, Mathematical Sciences, 316 Dunn Hall, Memphis, TN 38152, and **Gustavo Perla Menzala** (perla@lncc.br), Av. Getulio Vargas, 333, Quitandinha, Petropolis, 25651075, Brazil. *Existence and Uniqueness of Marguerre-Vlasov's shallow shell model with thermal effects.*

We consider the dynamic system of Marguerre Vlasov with thermal effects. This system is widely accepted as the dynamic model that describes vibrations of shallow shells. The wellposedness of regular and weak solutions is showed and uniform decay rate is obtained for the associated energy. (Received January 27, 2014)